



# **Organizational and Expertise Directory**

**Spring 2008**

**Office of Research,  
Development and Technology**

**Turner-Fairbank Highway Research Center  
6300 Georgetown Pike, McLean, VA 22101**



U.S. Department of Transportation  
**Federal Highway Administration**

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## Who We Are and What We Do

The Federal Highway Administration (FHWA) Office of Research, Development, and Technology (RD&T) is organized into 5 offices with 16 teams of experts in more than 30 transportation-related disciplines. Three research and development (R&D) offices—Operations, Safety, and Infrastructure—conduct R&D to continually improve highway operations and intelligent transportation systems (ITS), safety, and infrastructure, respectively. The Office of Corporate Research, Technology, and Innovation Management leads change and provides a comprehensive approach to managing advanced and applied research programs, communicating corporate messages from agenda setting through impact assessment; develops and executes policy, budget, program management, and administrative mechanisms to add value and quality continually to a nationwide FHWA R&T program; and develops and executes comprehensive R&T communications and marketing strategies, plans, and evaluation methods, which support FHWA-wide R&T programs and R&T services to FHWA offices. The Office of Resource Management provides administrative services for RD&T.

RD&T also manages the FHWA R&T Program, which directly supports the goals of the U.S. Department of Transportation (USDOT) to invest strategically in transportation infrastructure, promote safe and secure transportation, enhance our environment, and create new alliances between the Nation's transportation and technology industries. The Office of Corporate Research, Technology, and Innovation Management supports the FHWA R&T Program.

In virtually everything we do, we coordinate and/or collaborate extensively with other FHWA and DOT offices, State and local government partners, academic organizations, companies in the industry, military research offices, and professional organizations. In an effort to involve stakeholders and partners, and improve RD&T, FHWA is implementing a Corporate Master Plan that centers around Agency commitments and principles.

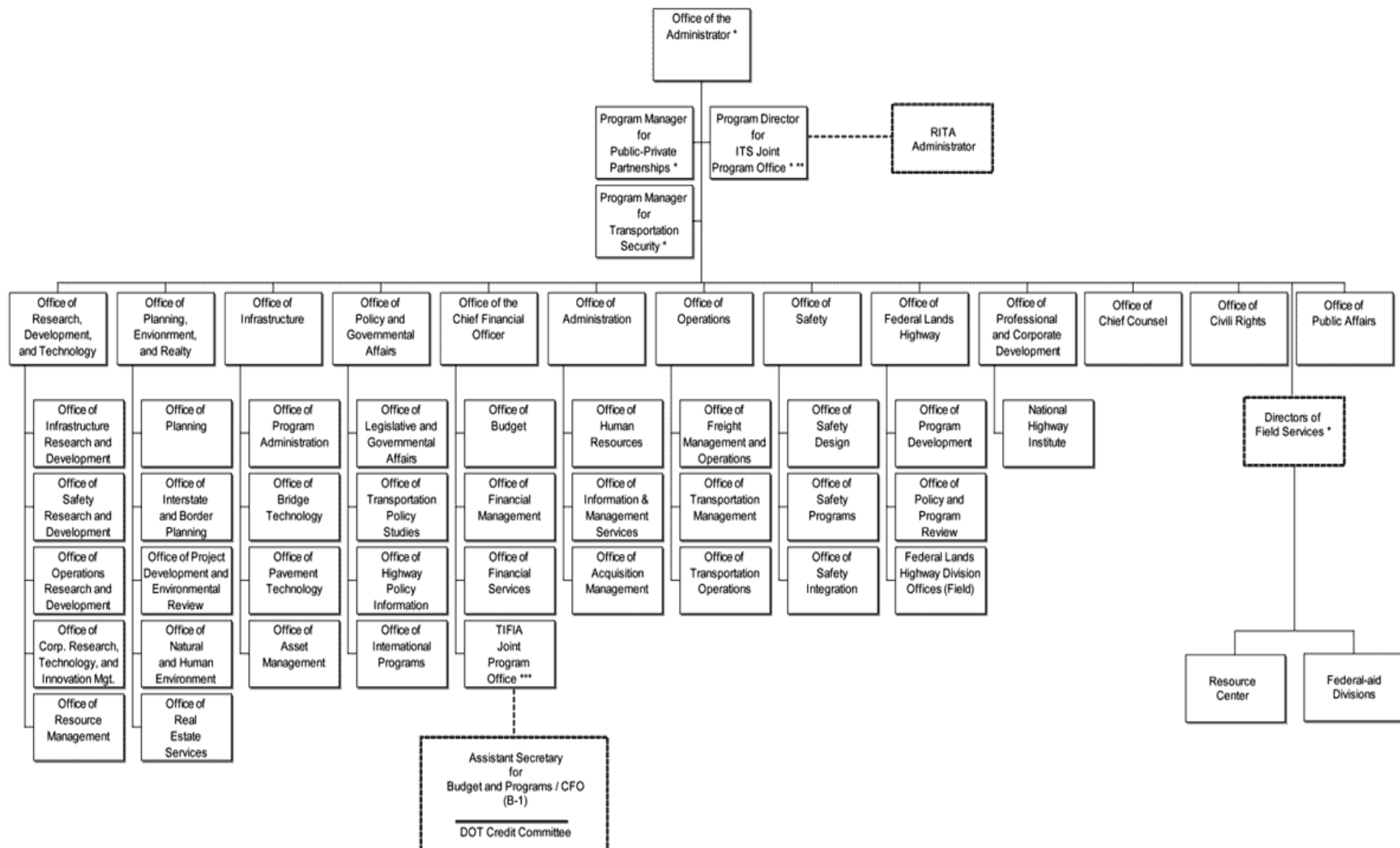
See RD&T fiscal year (FY) 2007 product and service descriptions and year-end statuses in the soon to be published *Office of Research, Development, and Technology Fiscal Year 2007 Research Project Status Summary*. Find a listing and descriptions of FY 2008-2009 products and services in the forthcoming *RD&T FY 2008/2009 Performance Plan*. The performance plan and report are available on the Turner-Fairbank Highway Research Center (TFHRC) Web site ([www.tfhrc.gov](http://www.tfhrc.gov)).

We are proud of our contributions, products, and services that quickly and cost-effectively accelerate and transform new technologies and concepts into better transportation systems, processes, and services. With our partners, we improve our national quality of life. To be successful, we must respond to the needs of our national transportation system and its users—society at large. We meet the challenge by constantly emphasizing and demonstrating innovation.

***Research that is Essential, Indispensable, and Connected to our Customers.***



# Federal Highway Administration Organizational Chart



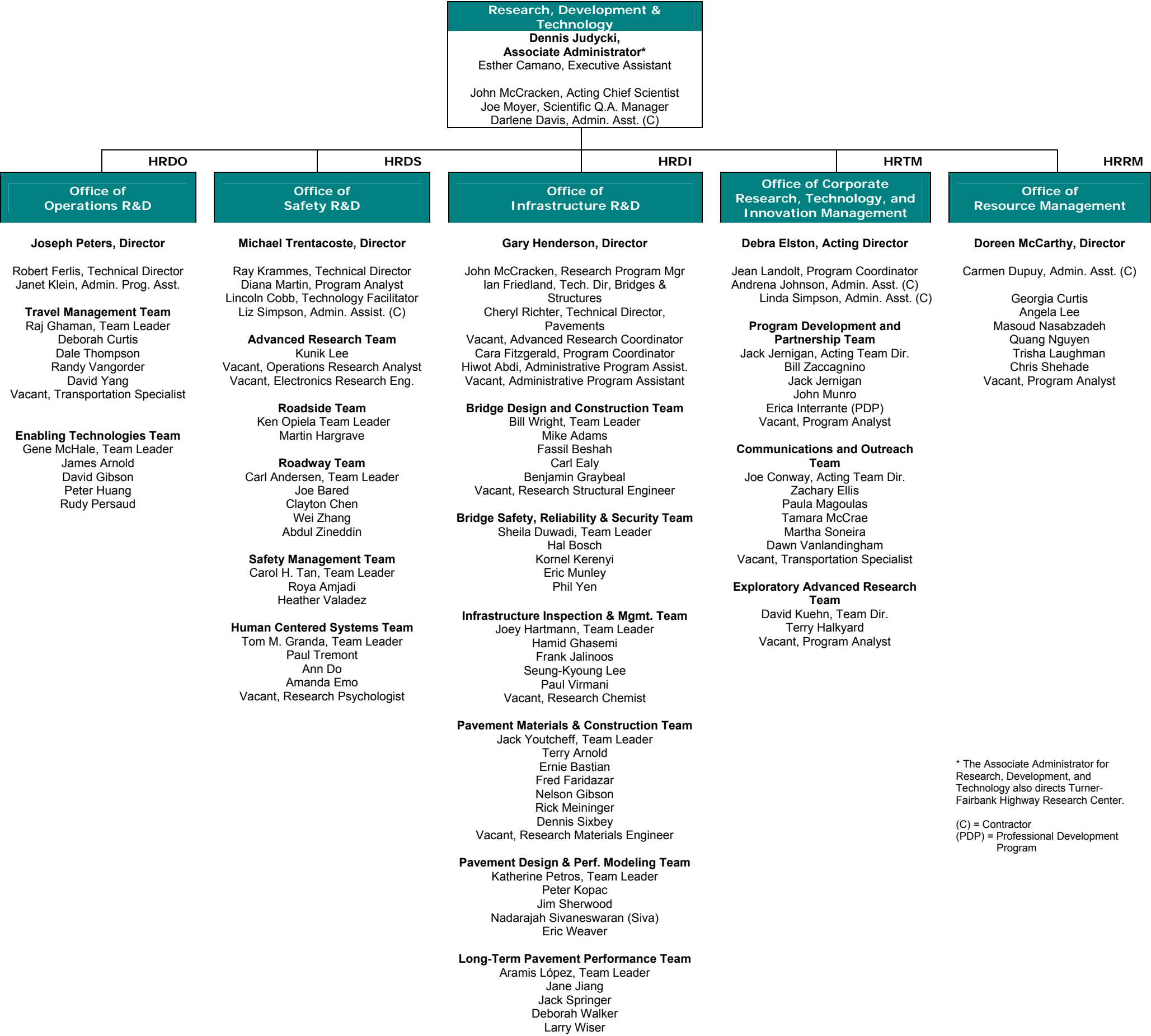
\* The Office of the Administrator includes the Administrator, Deputy Administrator, Executive Director, and the Intelligent Transportation Systems Joint Program Office (ITS JPO). FHWA's Program Manager for Public-Private Partnerships, the Program Manager for Transportation Security, and the Directors of Field Services (DFS) are extensions of the Executive Director's office. The DFSs provide administrative supervision and leadership on strategic initiatives to the constituent Federal-Aid Division Administrators. The DFS-West also provides administrative supervision to the Resource Center Director.

\*\* The Program Director for the ITS JPO has a departmentwide role, provides executive direction over the ITS JPO, and advises and reports to both the FHWA Administrator and the RITA Administrator.

\*\*\* The Transportation Infrastructure Finance and Innovation Act Joint Program Office (TIFIA JPO) is a multi-modal office located within the FHWA's Office of the Chief Financial Officer and has a departmentwide role, which is overseen by the Assistant Secretary of Transportation for Budget and Programs (OST B-1) and the DOT Credit Committee.

Effective August 1, 2007

Federal Highway Administration Turner-Fairbank Highway Research Center Organizational Chart



\* The Associate Administrator for Research, Development, and Technology also directs Turner-Fairbank Highway Research Center.

(C) = Contractor  
(PDP) = Professional Development Program

# Office of the Associate Administrator

Fax: 202-493-3170

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## Office of the Associate Administrator, HRT-01

### Dennis Judycki

*Associate Administrator for Research, Development, and Technology (RD&T)/Director of Turner-Fairbank Highway Research Center (TFHRC)*

202-493-3999

[dennis.judycki@fhwa.dot.gov](mailto:dennis.judycki@fhwa.dot.gov)

### Primary Responsibilities

- National Highway Research and Technology (R&T) Partnership leadership development and coordination
- Corporate facilitation and coordination of research, technology, and innovation deployment
- Advancement of Agency's strategic mission and role of "Innovators for a Better Future"

### Backup Person

Michael Trentacoste

---

### Esther Camano

*Executive Assistant*

202-493-3999

[esther.camano@fhwa.dot.gov](mailto:esther.camano@fhwa.dot.gov)

### Primary Responsibilities

- Administrative support

### Major Projects

- Office management

### Backup Person

Liz Simpson

---

### John McCracken

*Acting Chief Scientist, TFHRC*

202-493-3422

[john.mccracken@fhwa.dot.gov](mailto:john.mccracken@fhwa.dot.gov)

### Primary Responsibilities

- Strategic Planning for TFHRC
  - Coordination of research and development (R&D) at TFHRC
  - Exploratory Advanced Research at TFHRC
- 

### Joe Moyer

*Scientific Quality Assurance Manager*

202-493-3370

[joe.moyer@fhwa.dot.gov](mailto:joe.moyer@fhwa.dot.gov)

### Primary Responsibilities

- Lab Assessment
- Data Quality
- Peer Review

# Office of Resource Management

Fax: 202-493-3478

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## Office of Resource Management, HRRM-01

### Doreen McCarthy

*Director*

202-493-3175

[doreen.mccarthy@fhwa.dot.gov](mailto:doreen.mccarthy@fhwa.dot.gov)

### Primary Responsibilities

- Director

### Major Projects

- Leadership in management planning and Turner-Fairbank Highway Research Center (TFHRC) business operations

### Backup Person

Chris Shehade

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## Carmen Dupuy

*Administrative Assistant (Contractor)*

202-493-3175

[carmen.dupuy@fhwa.dot.gov](mailto:carmen.dupuy@fhwa.dot.gov)

### Primary Responsibilities

- Office operations and support
- Purchase Request tracking
- Assistance to Accountable Property, Employee Development, and Facility Security Activities
- TFHRC Central Telephone Information

### Major Projects

- Office management
  - Support to Administrative Management programs
- 

## Chris Shehade

*Senior Financial Manager*

202-493-3179

[chris.shehade@fhwa.dot.gov](mailto:chris.shehade@fhwa.dot.gov)

### Primary Responsibilities

- Financial consultation to the Research and Technology (R&T) Leadership Team
- R&T budget execution
- Financial management policy reviews

### Major Projects

- Financial consultation on R&T funding issues and financial management of all research, development, and technology research, development, and technology (RD&T) allotments

### Backup Person

Quang Nguyen

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**Georgia Curtis**

*Administrative Management Specialist*

202-493-3180

[georgia.curtis@fhwa.dot.gov](mailto:georgia.curtis@fhwa.dot.gov)

**Primary Responsibilities**

- General Operating Expenses (GOE) allocation management
- RD&T Purchase Card review and program oversight (GOE)
- RD&T Employee Development program coordination

**Major Projects**

- GOE allotment financial research, reconciliation, and reporting
- RD&T Purchase Card review and program oversight (GOE)
- RD&T Training Coordinator

**Backup Persons**

Chris Shehade

Carol Roberts

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**Quang Nguyen**

*Accountant/Financial Manager*

202-493-3298

[quang.nguyen@fhwa.dot.gov](mailto:quang.nguyen@fhwa.dot.gov)

**Primary Responsibilities**

- RD&T budget execution
- Managerial Cost Accounting System implementation and continuing oversight
- Program funds review, research, and reconciliation

**Major Projects**

- Financial oversight of RD&T allotments
- Contracting Officer's Technical Representative (COTR) for financial management support contracts
- Managerial Cost Accounting System Management for RD&T

**Backup Person**

Chris Shehade

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**Masoud Nasabzadeh**

*Research Facility Technical Support Specialist*

202-493-3047

[masoud.nasabzadeh@fhwa.dot.gov](mailto:masoud.nasabzadeh@fhwa.dot.gov)

**Primary Responsibilities**

- Technical support to research and development (R&D) activities at TFHRC
- Contract administration of information technology (IT) support and electronics laboratory contracts
- Facility reviews and strategic planning
- Emergency planning and continuity of operation plan (COOP) management

**Major Projects**

- COTR for RD&T-wide technical support contracts
- TFHRC Strategic Capital Investment Plan
- COOP Management
- TFHRC physical security review

**Backup Person**

Doreen McCarthy

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**Trisha Laughman**

*Administrative Management Specialist*

202-493-3185

[trisha.laughman@fhwa.dot.gov](mailto:trisha.laughman@fhwa.dot.gov)

**Primary Responsibilities**

- Human resource management
- Human resource consultation and guidance

**Major Projects**

- Human resource management and consultation
- Workforce planning
- Competitive Sourcing Program implementation

**Backup Person**

Doreen McCarthy

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**Angela Lee**

*Administrative Management Specialist*

202-493-3471

[angela.lee@fhwa.dot.gov](mailto:angela.lee@fhwa.dot.gov)

**Primary Responsibilities**

- Accountable property inventory and records management
- Facility space management assistance
- U.S. Department of Transportation vehicle and wireless communication device administration

**Major Projects**

- TFHRC Accountable Property Officer
- Facility Space Utilization Studies
- Purchase Request Quality Review support

**Backup Person**

Masoud Nasabzadeh

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**Management Services Division, HAIM-20****Brian Kerr**

202-493-3000

[brian.kerr@fhwa.dot.gov](mailto:brian.kerr@fhwa.dot.gov)

**Primary Responsibilities**

- Facilities Manager

**Major Projects**

- Facilities operations

**Backup Person**

Lyle Hayhurst

# Office of Corporate Research, Technology and Innovation Management

Fax: 202- 493- 3475 (HRTM-01) (HRTM-03, HRTM-04)  
Fax: 202- 493- 3170 (HRTM-02)

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## Office of Research, Technology, and Innovation Management, HRTM-01

### Debra Elston

*Acting Director*

202-493-3181

[debra.elston@fhwa.dot.gov](mailto:debra.elston@fhwa.dot.gov)

### Primary Responsibilities

- Overall leadership of research and technology (R&T) program development and innovation management
- Lead for the Exploratory Advanced Research Program
- Primary contact for national research partnerships and State research programs
- Leadership and communication for the R&T program

### Major Projects

- Federal Highway Administration (FHWA) R&T program development and innovation management
- Co-Chair Research, Technology and Education Reauthorization Working Group
- Liaison with Transportation Research Board (TRB) R&T Coordinating Committee (RTCC)
- Primary contact for coordination of international R&T programs

### Backup Person

Jack Jernigan

Joe Conway

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### Jean Landolt

Research and Technology Program Coordinator

202-493-3146

[jean.landolt@fhwa.dot.gov](mailto:jean.landolt@fhwa.dot.gov)

### Primary Responsibilities

- Advice to office director on office operations
- Program coordination and monitoring
- Fiscal accountability within office
- Contract administration support

### Major Projects

- Office management initiatives
- Program and budget monitoring
- Accountable property inventory

**Backup Person**

Jack Jernigan

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**Andrena Johnson**

*Administrative Assistant (Contractor)*

202-493-3166

[andrena.johnson@fhwa.dot.gov](mailto:andrena.johnson@fhwa.dot.gov)

**Primary Responsibilities**

- Administrative support to the Office Director of Research, Technology, and Innovation Management

**Major Projects**

- Office activities scheduling
- Office materials proofreading
- Correspondence control/routing organization
- Time & attendance
- Travel

**Backup Person**

Linda Simpson

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**Linda Simpson**

*Administrative Assistant (Contractor)*

202-493-3423

[linda.simpson@fhwa.dot.gov](mailto:linda.simpson@fhwa.dot.gov)

**Primary Responsibilities**

- Administrative support to the Office Director, Research and Technology Program Development and Partnership Team; Communications and Outreach Team; and the Exploratory Advanced Research Team

**Major Projects**

- Office and meeting support
- Tour materials

**Backup Person**

Andrena Johnson

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**R&T Program Development and Partnership Team, HRTM-02****Jack Jernigan**

Acting Team Director

202-493-3363

[debra.elston@fhwa.dot.gov](mailto:debra.elston@fhwa.dot.gov)

**Primary Responsibilities**

- Legislation and budget
- National research and technology program development and evaluation

**Major Projects**

- Nationally coordinated Research and Technology (R&T) program
- R&T partnership development
- R&T Leadership Team secretariat

**Backup Person**

Debra Elson

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**Vacant**

National Partnership Manager  
202-493-xxxx

**Primary Responsibilities**

- Coordination of national R&T programs
- R&T program formulation in cooperation with FHWA headquarters and field offices

**Major Projects**

- National Highway R&T programs
- Liaison with Research and Innovative Technology Administration (RITA) for University Transportation Center (UTC) program
- Small Business Innovative Research (SBIR) program

**Backup Person**

Jack Jernigan

---

**Jack Jernigan**

Research and Technology Legislation and Budget Analyst  
202-493-3363  
[jack.jernigan@fhwa.dot.gov](mailto:jack.jernigan@fhwa.dot.gov)

**Primary Responsibilities**

- Development of R&T budget and budget delivery plan
- Development and review of reauthorization legislative proposals
- Development of R&T Legislative Implementation Plan for the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)
- Future Strategic Highway Research Program (SHRP 2)

**Major Projects**

- Annual R&T budget and budget delivery plan
- Legislative proposals
- Liaison with SHRP 2
- Liaison with TRB RTCC
- FHWA headquarters and field office coordination

**Backup Person**

Debra Elston

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**Bill Zaccagnino**

Research and Technology State Program Analyst  
202-493-3183  
[william.zaccagnino@fhwa.dot.gov](mailto:william.zaccagnino@fhwa.dot.gov)

**Primary Responsibilities**

- RD&T State Planning and Research Program manager

- FHWA manager for National Cooperative Highway Research Program (NCHRP)
- RD&T liaison for TRB activities
- State peer exchange program
- FHWA manager for State peer exchange program
- Transportation Pooled Fund Program Manager

#### **Major Projects**

- American Association of State Highway and Transportation Officials' (AASHTO) Standing Committee on Research (SCOR) and Research Advisory Committee (RAC)
- Core Program contract with TRB
- NCHRP coordination
- Liaison for NCHRP Projects 20-5
- State peer exchange monitoring
- University Transportation Center Liaison

#### **Backup Persons**

Jack Jernigan  
Joe Conway

#### **John F. Munro**

##### **Technology Transfer System Analyst**

202-493-3368

[john.munro@fhwa.dot.gov](mailto:john.munro@fhwa.dot.gov)

#### **Primary Responsibilities**

- R&T strategic planning
- Intellectual property system development and coordination
- R&T performance planning and performance measures
- Representative to Federal Laboratory Consortium (FLC)

#### **Major Projects**

- Staff support for USDOT RD&T Program Review Working Group
- Intellectual property right coordination
- Small Business Innovation Research
- Scientific peer review support

#### **Backup Person**

Debra Elston

#### **Vacant**

*Transportation Pooled Fund (TPF) Program Manager*

202-493-xxxx

#### **Primary Responsibilities**

- Promotion and administration of the TPF Program
- Management of TPF Program

#### **Major Projects**

- FHWA liaison for TPF projects
- TPF Web site updates
- TPF program annual report
- Briefings and training on TPF Program

- Communicate standard operating procedures
- AASHTO Technology Implementation Group (TIG) coordination

**Backup Person**

Bill Zaccagnino

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**Erica Interrante**

Professional Development Program Intern

202-493-3204

[Erica.interrante@fhwa.dot.gov](mailto:Erica.interrante@fhwa.dot.gov)

**Primary Responsibilities**

- Legislation and budget
- Marketing and communications
- Complete developmental assignments

**Backup Person**

Jack Jernigan

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**Communications and Outreach Team, HRTM-03****Joe Conway**

*Acting Team Director*

202-493-3186

[joe.conway@fhwa.dot.gov](mailto:joe.conway@fhwa.dot.gov)

**Primary Responsibilities**

- Leadership
- Budget planning
- Communications and outreach strategy

**Major Projects**

- Innovation management and delivery
- R&T story

**Backup Person**

Martha Soneira

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**Martha Soneira**

*Marketing and Communications Analyst*

202-493-3468

[martha.soneira@fhwa.dot.gov](mailto:martha.soneira@fhwa.dot.gov)

**Primary Responsibilities**

- Marketing and communications leadership
- *Public Roads* editor-in-chief

**Major Projects**

- R&T Marketing and communication support services management
- R&T marketing and communications network liaison
- Federal Highway Administration Research Library
- Telling the R&T story—the value of research

**Backup Person**

Paula Magoulas

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**Joe Conway**

*Information Management Analyst*

202-493-3186

[joe.conway@fhwa.dot.gov](mailto:joe.conway@fhwa.dot.gov)

**Primary Responsibilities**

- R&T information management
- R&T technology transfer and innovation delivery
- Communications and outreach support

**Major Projects**

- Federal Highway Administration Research Library
- Office liaison for Office of Infrastructure R&D and Office of Safety R&D

**Backup Person**

TaMara McCrae

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**Paula Magoulas**

*Communication Specialist/Creative Director*

202-493-3398

[paula.magoulas@dot.gov](mailto:paula.magoulas@dot.gov)

**Primary Responsibilities**

- Communications and outreach projects coordinator
- Communications/publications support service coordinator
- Communications/graphic consultation
- *Public Roads* creative director

**Major Projects**

- Communication support services management
- Communication and outreach projects coordination
- Success story coordination
- Office liaison for Office of Safety R&D

**Backup Person**

Martha Soneira

---

**Dawn Vanlandingham**

*Writer/Managing Editor*

202-493-3198

[dawn.vanlandingham@dot.gov](mailto:dawn.vanlandingham@dot.gov)

**Primary Responsibilities**

- R&T multimedia and Web publishing
- R&T and TFHRC Web site management
- Communications and Web consultation
- *Public Roads* managing editor

**Major Projects**

- Communications and outreach projects coordination



- Office liaison for Office of Safety R&D

**Backup Person**

Joe Conway

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**Zachary Ellis**

*Publishing and Marketing Specialist*

202-493-3193

[zachary.ellis@fhwa.dot.gov](mailto:zachary.ellis@fhwa.dot.gov)

**Primary Responsibilities**

- Meeting planning contract management
- R&T multimedia publishing coordination
- *Focus* newsletter managing editor
- Information sharing, management, and preservation

**Major Projects**

- Meetings and conference planning management
- Printing coordination and oversight
- Office liaison for Office of Operations R&D
- Records management and preservation

**Backup Person**

Joe Conway

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**TaMara McCrae**

*Marketing Specialist and Logistics/Tour Coordinator*

202-493-3382

[tamara.mccrae@fhwa.dot.gov](mailto:tamara.mccrae@fhwa.dot.gov)

**Primary Responsibilities**

- National exhibit coordination
- R&T communications support
- Facility tour coordination

**Major Projects**

- FHWA exhibit services support
- Facility tours
- R&T Product Distribution Center
- Priority, Market-Ready Technologies and Innovations communication and measurement

**Backup Person**

Joe Conway

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**Exploratory Advanced Research Team, HRTM-04****David Kuehn**

*Team Director*

202-493-3414

[david.kuehn@fhwa.dot.gov](mailto:david.kuehn@fhwa.dot.gov)

**Primary Responsibilities**

- FHWA leadership
- Scientific coordination
- Partnership development

**Major Projects**

- Visionary leadership for Exploratory Advanced Research (EAR) Program
- Facilitation of EAR partnership development
- International and national scientific program coordination
- Leadership and communication for *Corporate Master Plan for Research and Deployment of Technology & Innovation*

**Backup Person**

Terry Halkyard

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**Terry Halkyard**

*Advanced Research Program Analyst*

202-493-3467

[terry.halkyard@fhwa.dot.gov](mailto:terry.halkyard@fhwa.dot.gov)

**Primary Responsibilities**

- EAR program development and administration
- Budget delivery
- EAR partnerships

**Major Projects**

- Broad agency announcements
- Contract support management
- Internships and rotational assignments

**Backup Person**

David Kuehn

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**Vacant**

*Advanced Research Program Analyst*

202-493-xxxx

**Primary Responsibilities**

- EAR program development and administration
- Communications and outreach

**Major Projects**

- Program planning and delivery
- Internal research solicitation
- Program publications, Web development, and marketing

**Backup Person**

Terry Halkyard

---

**R&T Publications Support****Carlton Brigham**

*Product Distribution Center Manager (Contractor)*

301-577-0818

[report.center@fhwa.dot.gov](mailto:report.center@fhwa.dot.gov)

**Primary Responsibilities**

- R&T Product Distribution Center, Lanham, MD

**Backup Person**

Joe Conway

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**Federal Highway Administration Research Library****Jennifer Boteler**

*Librarian (Contractor)*

202-493-3071

[jennifer.boteler@fhwa.dot.gov](mailto:jennifer.boteler@fhwa.dot.gov)

**Primary Responsibilities**

- Federal Highway Administration Research Library manager
- Reference and interlibrary loans

**Backup Person**

Martha Soneira

# Office of Operations Research and Development (R&D)

Fax: 202–493–3419

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## Office of Operations R&D, HRDO-01

### Joe Peters

*HRDO-01, Director*

202–493–3303

[joe.peters@fhwa.dot.gov](mailto:joe.peters@fhwa.dot.gov)

### Primary Responsibilities

- Leadership of the Office of Operations R&D
- Transportation management and operations improvement through research, development, and testing
- Identification of future opportunities

### Major Projects

- Development of Federal Highway Administration (FHWA) Operations and Management R&D Program
- Advocacy for a nationally coordinated Operations R&D Program
- R&D program/project tracking

### Backup Person

Robert Ferlis

---

### Janet Klein

*Administrative Assistant*

202–493–3303

[janet.klein@fhwa.dot.gov](mailto:janet.klein@fhwa.dot.gov)

### Primary Responsibilities

- Administrative support

### Major Projects

- Office management
- 

## Technical Direction, Operations R&D, HRDO-02

### Robert Ferlis

*Technical Director*

202–493–3268

[robert.ferlis@fhwa.dot.gov](mailto:robert.ferlis@fhwa.dot.gov)

### Primary Responsibilities

- Coordination of project team activities with FHWA's Strategic Plan and Performance Plan goals and objectives
- Technical advice for project teams
- Customer/partner feedback
- RD&T product deployment
- Exploratory Advanced Research Program

### Major Projects

- Unit planning
- Intelligent transportation system (ITS) support
- Advanced mobility systems
- Liaison to headquarters and field offices

- Vehicle–highway automation
- Vehicle–Infrastructure Integration (VII)

**Backup Person**

Raj Ghaman

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**Travel Management Team, HRDO-03****Raj Ghaman**

*Team Leader*

202–493–3270

[raj.ghaman@fhwa.dot.gov](mailto:raj.ghaman@fhwa.dot.gov)

**Primary Responsibilities**

- Program management and development
- Contract management
- Technical direction
- Team management and leadership
- University Transportation Center (UTC)
- Strategic Highway Research Program and liaison
- National Cooperative Highway Research Program liaison

**Major Projects**

- Adaptive control hardware and software development including national standards
- Dynamic control software
- Adaptive Control Software (ACS) “Lite”
- Traffic management center (TMC) pooled fund
- Vehicle Infrastructure Integration
- Advanced traffic control
- Operations research

**Backup Person**

Deborah Curtis

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**Vacant**

*Highway Research Engineer*

202–493–3273

**Primary Responsibilities**

- Development of Dynamic Traffic Assignments (DTA) Systems
- Capacity and level of service
- Infrastructure security
- Weather

**Major Project**

- Dynamic Traffic Assignments (DTA) and traffic flow theory
- Technical support and program management
- Software testing
- Adverse weather traffic operations
- Integration of DTA in Integrated Corridor Management (ICM)

**Backup Persons**

Raj Ghaman

Deborah Curtis

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**Deborah Curtis**

*Highway Research Engineer*

202-493-3267

[deborah.curtis@fhwa.dot.gov](mailto:deborah.curtis@fhwa.dot.gov)

**Primary Responsibilities**

- Adaptive Control Software (ACS), ramp metering, ACS evaluation, and operation of work zones
- Exploratory Advanced Research Program
- Freight analysis and modeling
- Performance measures

**Major Projects**

- Vehicle-Infrastructure Integration Day 1 Applications
- Modeling and Simulation Workshop
- Adaptive Control Software LITE Phase II
- QuickZone and Work Zone Final Rule

**Backup Person**

Raj Ghaman

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**David Yang**

*Highway Research Engineer*

202-493-3284

[david.yang@fhwa.dot.gov](mailto:david.yang@fhwa.dot.gov)

**Primary Responsibilities**

- Freeway operations
- Traffic analysis and simulation tools
- Next Generation Simulation Modeling (NGSIM)
- Traffic modeling of evacuations
- ITS Deployment Analysis System (IDAS)

**Major Projects**

- Next Generation Simulation (NGSIM) program
- Traffic Analysis Toolbox
- CORridor SIMulation (CORSIM) Application Guidelines
- Ramp Management and Control Handbook
- Coordinated Freeway and Arterial Operations Handbook
- Empirical Studies of Traffic Flow in Inclement Weather

**Backup Person**

Raj Ghaman

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**Dale Thompson**

*Transportation Specialist*

202-493-3420

[dale.thompson@fhwa.dot.gov](mailto:dale.thompson@fhwa.dot.gov)

**Primary Responsibilities**

- Operations partnerships
- Access management
- Performance measures and data quality

**Major Projects**

- Traffic Management Center (TMC) pooled fund
- Integrated corridor management systems

**Backup Person**

Raj Ghaman

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**Randall VanGorder**

*Highway Research Engineer*

202-493-3266

[randall.vangorder@fhwa.dot.gov](mailto:randall.vangorder@fhwa.dot.gov)

**Primary Responsibilities**

- Traffic Research Laboratory (TReL) development and management
- Incident management
- Vehicle-Infrastructure Integration (VII) specialty vehicles
- Technology facilitation

**Major Projects**

- Manage Traffic Research Laboratory (TReL)
- Development of TReL integrated environment
- TReL Strategic Plan development
- Specialty vehicle field operational test with Minnesota DOT

**Backup Person**

Raj Ghaman

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**Enabling Technologies Team, HRDO-04****Gene McHale**

*Team Leader*

202-493-3275

[gene.mchale@fhwa.dot.gov](mailto:gene.mchale@fhwa.dot.gov)

**Primary Responsibilities**

- Technical direction
- Team management and leadership
- Infrastructure-related aspects to cooperative vehicle-infrastructure collision avoidance systems

**Major Projects**

- Cooperative intersection Collision Avoidance Systems (CICAS)
- Vehicle Infrastructure Integration (VII)

**Backup Person**

Peter Huang

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**James Arnold**

*Electronic Engineer*

202-493-3265

[james.a.arnold@fhwa.dot.gov](mailto:james.a.arnold@fhwa.dot.gov)

**Primary Responsibilities**

- Global positioning system (GPS)
- Dedicated short-range communication (DSRC)
- Spectrum Management

**Major Projects**

- Nationwide Differential GPS (NDGPS) and High-Accuracy NDGPS
- Technical support to ITS communications systems

**Backup Person**

Rudy Persaud

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**David Gibson**

*Highway Research Engineer*

202-493-3271

[david.gibson@fhwa.dot.gov](mailto:david.gibson@fhwa.dot.gov)

**Primary Responsibilities**

- Advanced and innovative research
- University research liaison
- Traffic sensors and detection
- Small Business Innovative Research (SBIR) liaison

**Major Projects**

- Sensors and controllers for Cooperative Intersection Collision Avoidance Systems (CICAS)
- University Research Centers of Excellence
- Stereo-Pedestrian Sensor Project

**Backup Person**

Gene McHale

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**Peter Huang**

*Highway Research Engineer*

202-493-3484

[peter.huang@fhwa.dot.gov](mailto:peter.huang@fhwa.dot.gov)

**Primary Responsibilities**

- Vehicle Infrastructure Integration (VII) enabling research
- Intersection collision avoidance

**Major Projects**

- Technologies for Cooperative Intersection Collision Avoidance Systems (CICAS) testing and evaluation
- ITS applications for work zones

**Backup Person**

David Gibson

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**Rudy Persaud**

*Highway Research Specialist*

202-493-3391

[rudy.persaud@fhwa.dot.gov](mailto:rudy.persaud@fhwa.dot.gov)

**Primary Responsibilities**

- Road weather management
- Rural ITS
- Global Positioning System (GPS)

**Major Projects**

- Winter maintenance decision support systems
- Environmental sensor stations investments
- Nationwide Differential Global Positioning System (NDGPS) deployment

**Backup Person**

James Arnold



## Office of Safety Research and Development (R&D)

Fax: 202-493-3170 (HRDS-01) Fax: 202-493-3170 (HRDS-02, HRDS-06, HRDS-07)  
Fax: 202-493-3417 (HRDS-04, HRDS-05)

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### Office of Safety R&D, HRDS-01

#### Michael Trentacoste

*HRDS-01, Director*

202-493-3260

[michael.trentacoste@fhwa.dot.gov](mailto:michael.trentacoste@fhwa.dot.gov)

#### Primary Responsibilities

- Advocacy for a nationally coordinated Safety R&D Program
- Development of FHWA Safety R&D Program
- Advanced research program leadership

#### Major Projects

- SHRP 2 Safety coordination
- FHWA Safety Research and Technology (R&T) Roadmap development
- RD&T Leadership Council efforts to improve Turner-Fairbank Highway Research Center (TFHRC)
- Facilitation of Safety R&D product and service deployments
- Advanced research planning and implementation process

#### Backup Person

Ray Krammes

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### Liz Simpson

*HRDS-01, Administrative Assistant (Contractor)*

202-493-3260

[liz.simpson@fhwa.dot.gov](mailto:liz.simpson@fhwa.dot.gov)

#### Primary Responsibilities

- Administrative support

#### Major Projects

- Office management
- 

### Technical Direction, Safety R&D, HRDS-02

#### Ray Krammes

*Technical Director*

202-493-3312

[ray.krammes@fhwa.dot.gov](mailto:ray.krammes@fhwa.dot.gov)

#### Primary Responsibilities

- Safety R&D Program coordination
- Direction and delivery of FHWA Safety R&D Program
- Technical oversight and guidance

#### Major Projects

- National Highway R&T Partnership Initiative-Safety
- SafetyAnalyst project
- *Highway Safety Manual*

**Backup Person**

Michael Trentacoste

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**Lincoln Cobb**

*Technology Facilitator*

202-493-3313

[lincoln.cobb@fhwa.dot.gov](mailto:lincoln.cobb@fhwa.dot.gov)

**Primary Responsibilities**

- Technology transfer and marketing safety products
- Customer feedback

**Major Projects**

- Technology facilitation strategy development
- Customer satisfaction survey
- Safety R&D Web site

**Backup Person**

Ray Krammes

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**Diana Martin**

*Program Analyst*

202-493-3168

[diana.martin@fhwa.dot.gov](mailto:diana.martin@fhwa.dot.gov)

**Primary Responsibilities**

- Procurement planning and management
- Accounting and budget planning, development, and monitoring

**Major Projects**

- Tracking office expenditures
- Accountable property inventories
- Information technology equipment and office/lab space needs assessment

**Backup**

Ray Krammes

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**Advanced Research, HRDS-03**

**Kunik Lee**

202-493-3491

[kunik.lee@fhwa.dot.gov](mailto:kunik.lee@fhwa.dot.gov)

**Primary Responsibilities**

- Develop innovative change for an integrated approach to improving highway safety
- Conduct research into vehicle compatibility with other vehicles, roadside hardware, and other road features
- Exploratory Advanced Research initiatives

**Major Projects**

- Develop program options for vehicle compatibility with roadside hardware
- Promote further development and application of the Digital Highway Measurement (DHM) System

**Backup Person**

**Vacant**

*Electronic Engineer*  
202-493-xxxx

**Primary Responsibilities**

- Advanced research
- Sensors
- Electromagnetics
- Simulation

**Major Projects**

- DHM System
- Software testing
- Pattern recognition algorithms development

**Backup Person**

Kunik Lee

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**Roadside Team, HRDS-04**

**Ken Opiela**

*Team Leader*  
202-493-3371  
[kenneth.opiela@fhwa.dot.gov](mailto:kenneth.opiela@fhwa.dot.gov)

**Primary Responsibilities**

- Roadside Team management
- Management of George Washington University's National Crash Analysis Center (NCAC) agreement
- Monitor changing roadside safety trends and contributing factors
- Develop and execute roadside safety R&D plan and disseminate results
- Coordinate crash analysis efforts with partner agencies
- Manage roadside outreach efforts

**Major Projects**

- Develop and maintain finite element (FE) models of vehicles and roadside elements for crash simulation
- Support efforts related to updating national crashworthiness standards
- Evaluation of roadside hardware effectiveness
- Analysis and design of physical infrastructure protection
- Analysis of vehicle rollover crashes and mitigation options

**Backup Person**

Martin Hargrave

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**Martin Hargrave**

*Research Mechanical Engineer*  
202-493-3311  
[martin.hargrave@fhwa.dot.gov](mailto:martin.hargrave@fhwa.dot.gov)

**Primary Responsibilities**

- Manage the Federal Outdoor Impact Laboratory (FOIL)
- Advance the use of dynamic FEA software to design crashworthy roadside safety structures and predict vehicle crash outcomes

- Coordinate use of FEA by Centers for Excellence
- Promote application of new materials (i.e., high performance composites) for roadside safety devices

**Major Projects**

- Develop software to determine FEA material model coefficients from test data
- Composite material guardrail system development
- Analyze options for lower cost placement of underground utilities adjacent to highways

**Backup Person**

Ken Opiela

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**Vacant**

*Highway Research Engineer*

202-493-xxxx

**Primary Responsibilities**

- Vehicle and hardware modeling
- Roadside safety

**Major Projects**

- Optimization and inverse roadside safety analysis
- Simulation modeling research and development
- Rollover causation and reduction

**Backup Person**

Ken Opiela

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**Roadway Team, HRDS-05****Carl Andersen**

*Team Leader*

202-493-3366

[carl.andersen@fhwa.dot.gov](mailto:carl.andersen@fhwa.dot.gov)

**Primary Responsibilities**

- Roadway Team Leader
- Arens Photometric and Visibility Laboratory
- Roadway visibility research

**Major Projects**

- Night visibility enhancement
- Roadway visibility modeling
- Traffic signal light improvement
- Visibility and lighting research

**Backup Person**

Joe Bared

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**Clayton Chen**

*Highway Research Engineer*

202-493-3054

[clayton.chen@fhwa.dot.gov](mailto:clayton.chen@fhwa.dot.gov)

**Primary Responsibilities**

- Geometric design and safety
- Safety analysis tools

**Major Projects**

- Interactive Highway Safety Design Model (IHSDM)

**Backup Persons**

Joe Bared  
Carl Andersen

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**Joe Bared**

*Highway Research Engineer*  
202-493-3314  
[joe.bared@fhwa.dot.gov](mailto:joe.bared@fhwa.dot.gov)

**Primary Responsibilities**

- Intersection safety and operations
- Safety and geometric design

**Major Projects**

- Implementation of surrogate safety assessment methods in traffic simulation models
- Safety and operational evaluation of alternative intersection and interchange designs

**Backup Person**

Wei Zhang

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**Wei Zhang**

*Highway Research Engineer*  
202-493-3317  
[wei.zhang@fhwa.dot.gov](mailto:wei.zhang@fhwa.dot.gov)

**Primary Responsibilities**

- Traffic engineering and safety
- Software development oversight

**Major Projects**

- Intersection research program
- Work zone safety

**Backup Person**

Joe Bared

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**Vacant**

*Highway Research Engineer*  
202-493-xxxx

**Primary Responsibilities**

- Visibility
- Traffic engineering and human factors

**Major Projects**

- Pavement marking retroreflectivity research
- Speed management research
- Traffic control devices research

**Backup Person**

Carl Andersen

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**Safety Management Team, HRDS-06****Carol H. Tan***Team Leader*

202-493-3315

[carol.tan@fhwa.dot.gov](mailto:carol.tan@fhwa.dot.gov)**Primary Responsibilities**

- Highway safety analysis
- Highway safety data
- GIS safety applications
- Safety management systems

**Major Projects**

- Activities involving Highway Safety Information System (HSIS)
- Development of the Minimum Inventory of Roadway Elements
- Motorcycle Crash Causation Study
- Wildlife-Vehicles Collision Reduction Study

**Backup Person**Roya Amjadi

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**Roya Amjadi***Transportation Specialist*

202-493-3383

[roya.amjadi@fhwa.dot.gov](mailto:roya.amjadi@fhwa.dot.gov)**Primary Responsibilities**

- Traffic Engineering and Safety
- Highway safety analysis

**Major Projects**

- SafetyAnalyst development support
- Low-cost Safety Improvement Evaluation Pooled-Fund Study

**Backup Person**Carol H. Tan

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**Heather Valadez***Mathematical Statistician*

202-493-3318

[heather.valadez@fhwa.dot.gov](mailto:heather.valadez@fhwa.dot.gov)**Primary Responsibilities**

- Highway safety analysis
- Safety management
- Geographical information systems (GIS) safety applications

**Major Projects**

- Countermeasure evaluation
- Safety Edge Evaluation Pooled-Fund Study

**Backup Person**Carol H. Tan

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**Human Centered Systems Team, HRDS-07**

**Thomas M. Granda**

*Team Leader, Engineering Research Psychologist*

202-493-3365

[thomas.granda@fhwa.dot.gov](mailto:thomas.granda@fhwa.dot.gov)

**Primary Responsibilities**

- Human Centered Systems (HCS) program
- HCS technical support management

**Major Projects**

- HCS safety research program
- HCS operations research program
- Transportation Management Center Pooled-Fund Study

**Backup Person**

Amanda Emo

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**Ann Do**

*Highway Research Engineer*

202-493-3319

[ann.do@fhwa.dot.gov](mailto:ann.do@fhwa.dot.gov)

**Primary Responsibilities**

- Pedestrian and bicycle safety
- Geometric design and safety

**Major Projects**

- Pedestrian and Bicycle Safety Research Program

**Backup Person**

Thomas M. Granda

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**Amanda Emo**

*Engineering Research Psychologist*

202-493-3395

[amanda.emo@fhwa.dot.gov](mailto:amanda.emo@fhwa.dot.gov)

**Primary Responsibilities**

- HCS safety research (pedestrian and bicycle safety, speed management)
- Older driver research

**Major Projects**

- Speed management research
- Pedestrian and bicycle safety research

**Backup Persons**

Thomas M. Granda

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**Paul Tremont**

*Engineering Research Psychologist*

202-493-3338

[paul.tremont@fhwa.dot.gov](mailto:paul.tremont@fhwa.dot.gov)

**Primary Responsibilities**

- HCS Laboratory Manager
- Safety and operations research

- Highway driving simulator

**Major Projects**

- Visibility studies
- Traffic Control Devices Pooled Fund Study

**Backup Person**

Thomas M. Granda

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**Vacant**

*Engineering Research Psychologist*  
202–493–xxxx

**Primary Responsibilities**

- HCS safety research
- Intelligent highway countermeasures
- Safety R&D task order contract

**Major Projects**

- Human factors research on novel intersection designs
- Accessibility issues at intersections
- Cooperative intersection collision avoidance systems

**Backup Person**

Thomas M. Granda



# Office of Infrastructure Research and Development (R&D)

Fax: 202–493–3442 (HRDI-01, HRDI-02, HRDI-07) Fax: 202–493–3086 (HRDI-03, HRDI-05, HRDI-10) Fax: 202–493–3161 (HRDI-04, HRDI-11, HRDI-12, HRDI-13)  
Fax: 202–493–3477 (HRDI-06)

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## Office of Infrastructure R&D, HRDI-01

### Gary L. Henderson

HRDI-01, Director

202–493–3022

[gary.henderson@fhwa.dot.gov](mailto:gary.henderson@fhwa.dot.gov)

### Primary Responsibilities

- Program direction and guidance for the Office of Infrastructure Research and Development (R&D)
- Technical and administrative supervision of Infrastructure R&D teams
- Interaction with headquarters and Federal Highway Administration (FHWA) Resource Center

### Major Projects

- Consolidated research, development and technology (RD&T) multiyear needs, programs, and budget
- National Partnership Initiative advancement
- Corporate management strategies development

### Backup Person

John M. McCracken

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## John McCracken

HRDI-01, Research Program Manager

202–493–3422

[john.mccracken@fhwa.dot.gov](mailto:john.mccracken@fhwa.dot.gov)

### Primary Responsibilities

- Policy, direction, and management support to Office Director
- Program development and delivery direction to Infrastructure R&D teams

### Major Projects

- Infrastructure R&D management strategies and business practices
- Infrastructure Research and Technology (R&T) Program development

### Backup Person

Cheryl Richter

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## Hiwot Abdi

HRDI-01, Administrative Program Assistant

202–493–3022

[Hiwot.abdi@fhwa.dot.gov](mailto:Hiwot.abdi@fhwa.dot.gov)

### Primary Responsibilities

- Administrative support for the Infrastructure R&D Program

### Major Projects

- Time and attendance personnel documents
- Team leader council meeting plans and minutes
- Office supplies

- Office communication activities
- 

**Vacant**

HRDI-04, Administrative Assistant  
202-493-3022

**Primary Responsibilities**

- Administrative support to the Technical Director for the Pavements Team, the Exploratory Advanced Research Coordinator, the Pavement Materials and Construction Team, the Pavement Design and Performance Modeling Team, and the Long-Term Pavement Performance Team
- 

**Vacant**

HRDI-01, Administrative Assistant (Contractor)  
202-493-3022

**Primary Responsibilities**

- Administrative support to the Office Director; Research Program Manager; Program Coordinator; Technical Director for Bridges; the Bridge Design and Construction Team; the Bridge Safety, Reliability, and Security Team; and the Infrastructure Inspection and Management Team
- 

**Cara Fitzgerald**

*HRDI-02, Program Coordinator*  
202-493-3376  
[cara.fitzgerald@fhwa.dot.gov](mailto:cara.fitzgerald@fhwa.dot.gov)

**Primary Responsibilities**

- Advice to Office Director on office operations
- Program coordination and monitoring
- Fiscal accountability within the office

**Major Projects**

- Office management initiatives
  - Program and budget monitoring
  - Accountable property inventory updates
- 

**Technical Direction, Bridges and Structures R&D, HRDI-03**

**Ian M. Friedland**

Technical Director  
202-493-3023  
[ian.friedland@fhwa.dot.gov](mailto:ian.friedland@fhwa.dot.gov)

**Primary Responsibilities**

- Leadership and technical direction for bridge- and structures-related programs and studies
- Promotion of RD&T products

**Major Projects**

- Program and budget documents
  - External partnerships development
  - Technology facilitation for bridges and other highway structures
-

**Technical Direction, Pavement R&D, HRDI-04****Cheryl Richter**

Technical Director

202-493-3070

[cheryl.richter@fhwa.dot.gov](mailto:cheryl.richter@fhwa.dot.gov)

**Primary Responsibilities**

- Leadership and technical direction for pavement-related programs and studies
- Promotion of RD&T products

**Major Projects**

- Program and budget documents
  - External partnerships development
  - Technology facilitation for pavements
- 

**Vacant**

Advanced Research Coordinator, HRDI-05

202-493-3063

**Primary Responsibilities**

- Advanced research

**Major Projects**

- Embeddable sensor systems
  - Nondestructive evaluation (NDE) for materials characterization
  - Materials science of portland cement concrete (PCC) setting
  - PCC durability
- 

**Bridge Design and Construction Team, HRDI-06****Bill Wright**

*Team Leader*

202-493-3053

[bill.wright@fhwa.dot.gov](mailto:bill.wright@fhwa.dot.gov)

**Primary Responsibilities**

- Bridge Design and Construction Team Leader
- High-performance steel research

**Major Projects**

- Bridge of the Future
- Fatigue and fracture
- Corrosion resistant steel

**Backup Persons**

Mike Adams

Fassil Beshah

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**Mike Adams**

*Research Civil Engineer*

202-493-3025

[mike.adams@fhwa.dot.gov](mailto:mike.adams@fhwa.dot.gov)

**Primary Responsibilities**

- Geotechnical Laboratory Manager
- Retaining wall systems
- Construction engineering
- Shallow foundations engineering

- Engineering geology

**Major Projects**

- Bridge of the Future
- Integrated Abutment Bridge System
- Geosynthetic reinforced soil (GRS) structures

**Backup Person**

Carl Ealy

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**Carl Ealy**

*Geotechnical Research Engineer*

202-493-3039

[carl.ealy@fhwa.dot.gov](mailto:carl.ealy@fhwa.dot.gov)

**Primary Responsibilities**

- Deep foundations engineering
- In situ testing techniques
- Innovative load testing systems
- Load and resistance factor design (LRFD) for geotechnical engineering

**Major Projects**

- Resistance factors for piles and drilled shafts
- Application of high performance materials to bridge foundations
- Health monitoring technologies for foundation construction and performance

**Backup Person**

Mike Adams

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**Fassil Beshah**

*Structures Laboratory Manager*

202-493-3041

[fassil.beshah@fhwa.dot.gov](mailto:fassil.beshah@fhwa.dot.gov)

**Primary Responsibilities**

- Structures Laboratory Manager
- High-performance materials

**Major Projects**

- Bridge of the Future
- High-performance material applications for bridges

**Backup Person**

Bill Wright

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**Benjamin Graybeal**

*Research Structural Engineer*

202-493-3122

[benjamin.graybeal@fhwa.dot.gov](mailto:benjamin.graybeal@fhwa.dot.gov)

**Primary Responsibilities**

- High-performance concrete
- Ultra high-performance concrete
- Structural testing
- Concrete bridges

**Major Projects**

- Bridge of the Future
- High-performance concrete bridges
- Concrete specifications
- High-performance materials

**Backup Person**

Bill Wright

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**Bridge Safety, Reliability, and Security Team, HRDI-07****Sheila Rimal Duwadi**

*Team Leader*

202-493-3106

[sheila.duwadi@fhwa.dot.gov](mailto:sheila.duwadi@fhwa.dot.gov)

**Primary Responsibilities**

- Bridge Safety, Reliability, and Security Team Leader
- Timber bridge research
- Bridge design
- Bridge and tunnel security

**Major Projects**

- Bridge and tunnel security research
- Advanced wood/fiber-reinforced polymer (FRP) composites

**Backup Person**

Harold Bosch

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**Harold Bosch**

*Research Structural Engineer*

202-493-3031

[harold.bosch@fhwa.dot.gov](mailto:harold.bosch@fhwa.dot.gov)

**Primary Responsibilities**

- Aerodynamics Laboratory Manager
- Structural dynamics
- Aerodynamic stability
- Wind loads on structures
- Weigh-in-motion

**Major Projects**

- Wind research
- Aerodynamic stability of bridges
- Wind-induced vibration of cables
- Aerodynamic properties of tapered cylinders
- Prediction methods for aerodynamic response
- Computational fluid dynamic flow simulation techniques

**Backup Person**

Sheila Rimal Duwadi

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**Kornel Kerenyi**

*Research Hydraulic Engineer*

202-493-3142

[kornel.kerenyi@fhwa.dot.gov](mailto:kornel.kerenyi@fhwa.dot.gov)

**Primary Responsibilities**

- Hydraulics Laboratory Manager
- Hydraulics and hydrology of highway structures

**Major Projects**

- Bridge scour
- Pressure flow scour
- Culvert hydraulics
- Bottomless culverts
- Highway drainage
- Multihazard modeling

**Backup Person**

Sheila Rimal Duwadi

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**Eric Munley**

*Research Structural Engineer*

202-493-3046

[eric.munley@fhwa.dot.gov](mailto:eric.munley@fhwa.dot.gov)

**Primary Responsibilities**

- FRP composites
- Adhesive-bonded connections
- Security assessment and training
- Vessel collision
- Bridge and tunnel security

**Major Projects**

- FRP prestressing
- Adhesives research
- FRP specification development
- Accelerated test development for FRP materials
- Bridge and tunnel vulnerability assessments
- Countermeasure Assessments
- Bridge and tunnel security research

**Backup Person**

Sheila Rimal Duwadi

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**Vacant**

*Bridge Research Engineer*

202-493-3051

**Primary Responsibilities**

- General bridge engineering
- Culverts
- Historic structures

**Major Projects**

- Seismic vulnerability assessment
- Covered bridge preservation

**Backup Person**

Sheila Rimal Duwadi

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**Phillip Yen**

*Research Structural Engineer*

202-493-3056

[wen-huei.yen@fhwa.dot.gov](mailto:wen-huei.yen@fhwa.dot.gov)

**Primary Responsibilities**

- Seismic research program
- LRFD design for structures

**Major Projects**

- Bridge vibration testing
- Bridge seismic instrumentation
- Seismic vulnerability
- Multihazard analysis of highway structures
- Seismic performance testing
- United States-Japan research in bridge seismic design and retrofitting

**Backup Person**

Sheila Rimal Duwadi

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**Infrastructure Inspection and Management Team, HRDI-10****Joey Hartmann**

*Team Leader*

202-493-3059

[joey.hartmann@fhwa.dot.gov](mailto:joey.hartmann@fhwa.dot.gov)

**Primary Responsibilities**

- Infrastructure Inspection and Management Team Leader

**Major Projects**

- Stewardship and management of existing bridges
- NDE
- Bridge management systems
- Corrosion and coating

**Backup Person**

Hamid Ghasemi

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**Hamid Ghasemi**

*Research Structural Engineer*

202-493-3042

[hamid.ghasemi@fhwa.dot.gov](mailto:hamid.ghasemi@fhwa.dot.gov)

**Primary Responsibilities**

- Long-Term Bridge Performance Program
- Bridge Management Information Systems Laboratory Manager
- Structural health monitoring
- Bridge dynamics
- Earthquake protective systems
- United States-Turkey collaboration on bridge design and health monitoring related issues

**Major Projects**

- Health monitoring of signature bridges
- Earthquake protective systems
- Bridge dynamics and modal testing
- Seismic isolation

- Near-source ground motions

**Backup Person**

Joey Hartmann

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**Vacant**

*Research Chemist*

202-493-3081

**Primary Responsibilities**

- Bridge Coatings Laboratory Manager
- Bridge coating research
- Paint testing and coating evaluation methods
- Oversight of Paint, Corrosion, and Scanning Electron Microscope Laboratories
- Dissemination of coating research results
- Solutions for field coating failure problems

**Major Projects**

- Accelerated test methods for evaluation of coating materials
- Performance evaluation of fast drying coatings

**Backup Person**

Seung-Kyoung Lee

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**Seung-Kyoung Lee**

*Research Corrosion Engineer*

202-493-3077

[seung-kyoung.lee@fhwa.dot.gov](mailto:seung-kyoung.lee@fhwa.dot.gov)

**Primary Responsibilities**

- Corrosion protection of highway structures

**Major Projects**

- Corrosion of reinforced concrete bridge elements
- Material integrity testing for bridges

**Backup Person**

Paul Virmani

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**Paul Virmani**

*Research Chemist*

202-493-3052

[paul.virmani@fhwa.dot.gov](mailto:paul.virmani@fhwa.dot.gov)

**Primary Responsibilities**

- Corrosion protection systems
- Bridge deck durability

**Major Projects**

- Corrosion costs and preventive strategies
- Nondestructive tools for corrosion detection
- Cathodic protection systems
- Corrosion resistant reinforcement

**Backup Person**

Seung-Kyoung Lee

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**Frank Jalinoos**

*Nondestructive Evaluation (NDE) Program Manager*

202-493-3082

[frank.jalinoos@fhwa.dot.gov](mailto:frank.jalinoos@fhwa.dot.gov)

**Primary Responsibilities**

- NDE Center Manager
- Bridge NDE
- Steel Bridge Testing Program

**Major Projects**

- NDE technologies for bridges
- Ground-penetrating radar (GPR), including the High-speed Electromagnetic Roadway Mapping and Evaluation System (HERMES) and the Precision Electromagnetic Roadway Evaluation System (PERES)
- Crack detection methods
- Condition assessment of pre-stressed tendons
- Automated ultrasonic testing
- FHWA Steel Bridge Testing Program

**Backup Person**

Hamid Ghasemi

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**Pavement Materials and Construction Team, HRDI-11****Jack Youtcheff**

*Team Leader*

202-493-3090

[jack.youtcheff@fhwa.dot.gov](mailto:jack.youtcheff@fhwa.dot.gov)

**Primary Responsibilities**

Team Leader

- Pavement Materials and Construction Research

**Major Projects**

- Understanding the performance of modified binders in asphalt mixes
- Moisture sensitivity of asphalt
- Organization for Economic Cooperation and Development (OECD) long-life pavements
- Asphalt Research Consortium
- Asphalt durability

**Backup Persons**

Nelson Gibson

Richard Meininger

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**Ernest Bastian**

*Materials Research Chemist*

202-493-3075

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**Primary Responsibilities**

- SIMAP Laboratory Manager
- Asphalt rheology and chemistry

**Major Projects**

- Fundamental properties of asphalt and modified asphalt
- National Research Council research associate manager

**Backup Person**

Jack Youtcheff

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**Fred Faridazar**

*Highway Research Engineer*

202-493-3076

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**Primary Responsibilities**

- Computer guidelines for PCC pavement performance prediction
- Long-term behavior of jointed concrete pavement
- Early-age behavior of continuously reinforced concrete pavement
- Lithium technologies to mitigate or prevent alkali-silica reactivity (ASR)

**Major Projects**

- Computer-based guidelines for concrete pavements
- HIPERPAV

**Backup Person**

Richard Meininger

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**Nelson Gibson**

*Materials Research Engineer*

202-493-3073

[nelson.gibson@fhwa.dot.gov](mailto:nelson.gibson@fhwa.dot.gov)

**Primary Responsibilities**

- Asphalt Laboratory Manager (Binder and Mixture)
- Accelerated Loading Facility (ALF) research
- Asphalt technology

**Major Projects**

- Superpave modification
- Warm mix
- Performance tests
- Understanding the performance of modified binders in asphalt mixes

**Backup Person**

Jack Youtcheff

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**Vacant**

*Highway Research Engineer*

202-493-3xxx

**Primary Responsibilities**

- Concrete materials research

**Backup Person**

Richard Meininger

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**Richard Meininger**

*Research Highway Engineer*

202-493-3191

[richard.meininger@fhwa.dot.gov](mailto:richard.meininger@fhwa.dot.gov)

**Primary Responsibilities**

- Portland Cement Concrete (PCC) Laboratories Manager
- PCC component materials, properties, and specifications
- PCC mixture proportioning
- PCC properties and performance
- Aggregate Research

**Major Projects**

- Concrete mix design and analysis
- Rapid test for alkali-silica susceptibility
- PCC freeze-thaw performance
- PCC thermal coefficient of expansion-test method and data for Long-Term Pavement Performance (LTPP) database

**Backup Person**

Jack Youtcheff

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**Dennis Sixbey**

*Research Materials Engineer*

202-493-3078

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**Primary Responsibilities**

- Laboratory services support
- Surface characteristics
- PCC pavement materials

**Backup Person**

Jack Youtcheff

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**Terrence Arnold**

*Materials Research Chemist*

202-493-3305

[terry.arnold@fhwa.dot.gov](mailto:terry.arnold@fhwa.dot.gov)

**Primary Responsibilities**

- Chemistry Laboratory Manager
- Asphalt chemistry and technology

**Major Projects**

- Fundamental properties of asphalt, modified asphalt, and alternative materials
- Understanding the performance of modified binders in asphalt mixes
- Alkali-silica reactivity

**Backup Person**

Jack Youtcheff

Ernest Bastian

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## **Pavement Design and Performance Modeling Team, HRDI-12**

### **Katherine Petros**

*Team Leader*

202-493-3154

[katherine.petros@fhwa.dot.gov](mailto:katherine.petros@fhwa.dot.gov)

#### **Primary Responsibilities**

- Team Leader
- Pavement design and performance modeling

#### **Major Projects**

- *Mechanistic-Empirical Pavement Design Guide*
- Mechanistic performance prediction models
- Performance-related specifications

#### **Backup Persons**

Peter Kopac

Nadarajah Sivianeswaran

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### **Eric Weaver**

*Highway Research Engineer*

202-493-3153

[eric.weaver@fhwa.dot.gov](mailto:eric.weaver@fhwa.dot.gov)

#### **Primary Responsibilities**

- Computation Resource Manager
- Pavement structural design
- Pavement analysis techniques

#### **Major Projects**

- Design Guide Implementation Team
- Pavement performance prediction models
- Asphalt Research Consortium
- FWD Calibration Pooled Fund Study
- Geosynthetics in pavements

#### **Backup Person**

Katherine Petros

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### **James Sherwood**

*Highway Research Engineer*

202-493-3150

[jim.sherwood@fhwa.dot.gov](mailto:jim.sherwood@fhwa.dot.gov)

#### **Primary Responsibilities**

- PCC pavement design and performance
- PCC pavement maintenance and rehabilitation

#### **Major Projects**

- Design Guide Implementation Team
- Concrete performance prediction modeling
- Ultra-thin whitetopping

#### **Backup Persons**

Katherine Petros

Peter Kopac

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**Nadarajah Sivanewaran (Siva)**

*Highway Research Engineer*

202-493-3147

[nadarajah.sivanewaran@fhwa.dot.gov](mailto:nadarajah.sivanewaran@fhwa.dot.gov)

**Primary Responsibilities**

- Pavement performance modeling
- Pavement management systems
- Life cycle cost analysis
- Remaining service life

**Major Projects**

- Life cycle cost analysis
- Mechanistic analysis of pavement structures
- Performance prediction modeling
- Construction analysis for pavement rehabilitation strategies (CA4PRS) development
- Composite pavements

**Backup Persons**

Katherine Petros

James Sherwood

---

**Peter Kopac**

*Research Highway Engineer*

202-493-3151

[peter.kopac@fhwa.dot.gov](mailto:peter.kopac@fhwa.dot.gov)

**Primary Responsibilities**

- Advanced quality systems
- Pavement performance-related specifications
- Statistical quality control
- Quality assurance specifications

**Major Projects**

- Performance-related specifications
- Optimal statistical acceptance procedures
- Relating construction to performance
- Concrete pavement road map
- FRP composites

**Backup Persons**

Katherine Petros

James Sherwood

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**Long-Term Pavement Performance Team, HRDI-13****Aramis López**

*Team Leader*

202-493-3145

[aramis.lopez@fhwa.dot.gov](mailto:aramis.lopez@fhwa.dot.gov)

**Primary Responsibilities**

- LTPP Team Leader
- LTPP product coordination

**Major Projects**

- LTPP daily operations

- LTPP technical support services
- LTPP international coordination
- Transportation Research Board (TRB) LTPP Committee
- TRB LTPP Expert Task Groups (ETG)

**Backup Person**

Jack Springer

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**Jack Springer**

*Highway Research Engineer*

202-493-3144

[jack.springer@fhwa.dot.gov](mailto:jack.springer@fhwa.dot.gov)

**Primary Responsibilities**

- LTPP field operations
- LTPP materials testing
- LTPP seasonal monitoring data
- LTPP distress data collection
- LTPP Automated Weather Stations
- LTPP Materials Reference Laboratory
- American Association of State Highway and Transportation Officials' Subcommittee on Materials Secretary

**Major Projects**

- Regional contract support
- Resilient Modulus and material testing
- TRB ETG on LTPP operations

**Backup Person**

Aramis López

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**Deborah Walker**

*Highway Research Engineer*

202-493-3068

[deborah.walker@fhwa.dot.gov](mailto:deborah.walker@fhwa.dot.gov)

**Primary Responsibilities**

- LTPP traffic activities
- LTPP communications

**Major Projects**

- Specific Pavement Studies Traffic Pooled Fund Study
- LTPP traffic analysis software
- LTPP traffic data collection
- LTPP traffic data forecasting and backcasting
- TRB ETG on Traffic

**Backup Person**

Aramis López

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**Jane Jiang**

*Highway Research Engineer*

202-493-3149

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**Primary Responsibilities**

- LTPP database activities
- LTPP FWD operations
- LTPP documentation

**Major Projects**

- FWD calibration
- LTPP database management
- TRB ETG on LTPP operation

**Backup Person**

Aramis López

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**Larry Wiser**

*Highway Research Engineer*

202-493-3079

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**Primary Responsibilities**

- LTPP Customer Support Service Center (CSSC)
- LTPP data analysis
- LTPP profile measurement
- LTPP data studies and computed parameters

**Major Projects**

- LTPP CSSC operations
- Data analysis projects and contracts
- TRB ETG on LTPP operation and data analysis

**Backup Person**

Aramis López

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## Directions

### FROM REAGAN NATIONAL AIRPORT

Take the George Washington (GW) Memorial Parkway toward Washington, DC. Continue along the GW Memorial Parkway approximately 15.8 km (9.8 mi). Continue past the exit for Route 123 and take the exit marked by a small brown sign that reads, "George Bush Center for Intelligence CIA/FHWA." At the yield sign, take the entrance that veers to the right before the gates to the CIA. This gate is open Monday–Friday from 6 a.m. until 6 p.m. only. Use gate off of Route 193 on Colonial Farm Road for access at other times. (See directions from Dulles Airport.)

### FROM DULLES AIRPORT

Take the Dulles Toll Road (Route 267) east to the Route 123/ McLean exit. Travel on Route 123/Dolly Madison Boulevard until you reach a stoplight at the intersection with Route 193/Georgetown Pike. Turn left on Route 193. Turn right at the first road (Colonial Farm Road). Continue along the road past the CIA entrances on the right until you reach a gated entrance to the TFHRC complex. There is a security guard on duty at all times, and this gate is open 24 hours a day, 7 days a week.

### FROM POINTS NORTH

From points north of Washington, DC, take I-495 (Capital Beltway) around the west side of Washington, DC, to the GW Memorial Parkway, the first exit in Virginia. Continue along the parkway approximately 4.2 km (2.6 mi). Take the exit indicated by the small brown sign that reads, "George Bush Center for Intelligence CIA/ FHWA." Take the entrance that veers to the right before the gates to the CIA. This gate is open Monday–Friday from 6 a.m. until 6 p.m. only. Use gate off of Route 193 on Colonial Farm Road for access at other times. (See directions from Dulles Airport.)

### FROM POINTS SOUTH

From points south of Washington, DC, take I-495 North/Rockville to the GW Memorial Parkway exit. Continue along the parkway approximately 4.2 km (2.6 mi). Take the exit indicated by the small brown sign that reads, "George Bush Center for Intelligence CIA/ FHWA." Take the entrance that veers to the right before the gates to the CIA. This gate is open Monday–Friday from 6 a.m. until 6 p.m. only. Use gate off of Route 193 on Colonial Farm Road for access at other times. (See directions from Dulles Airport.)

### DOT HQ East Building/TFHRC Shuttle Schedule

A daily shuttle service operates between the DOT HQ East Building and TFHRC. The service begins at 7:00 a.m. from the DOT HQ East Building, Washington, DC, from 1201 4th Street, SE. The travel time to TFHRC is approximately 45 minutes. The schedule for the shuttle service is as follows:

Depart DOT HQ East	Arrive TFHRC	Depart TFHRC	Arrive DOT HQ East
7:00 a.m.	7:30 a.m.	7:40 a.m.	8:23 a.m.
8:33 a.m.	9:43 a.m.	9:53 a.m.	10:48 a.m.
10:55 a.m.	11:35 a.m.	11:40a.m.	12:15 p.m.
12:30 p.m.	1:00 p.m.	1:05 p.m.	1:35 p.m.
1:40 p.m.	2:10 p.m.	2:25 p.m.	2:45 p.m.
2:50 p.m.	3:30 p.m.	3:35 p.m.	4:20 p.m.
4:25 p.m.	5:15 p.m.	5:20 p.m.	6:07 p.m.

All DOT employees, contractors, and visitors are permitted to ride the shuttle while on official business. All visitors must have a valid Federal ID or an appointment scheduled with TFHRC staff.

This RD&T directory provides TFHRC expertise and contact information.

FHWA-HRT-08-037